STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 910 State Office Building Portland, OR 97201

HISTORY OF OIL OR GAS WELL

(In compliance with rules and regulations pursuant to ORS 520)

	(In compliance with rules and	regulations pursuant to ok	3 3207	
ORE	GON NATURAL GAS DEVELOPMENT CORP.	ONGD (Lease)	IV/33C-3 (Well No.)	
	(Company or operator) 3, T6N, R5W	, ,		
	7.21' W. FROM THE SE CORNER OF SEC. 3.		1002310 148 7140	
	: (or) Field Name: MIST-UNDERGE		nty: COLUMBIA	
WITGCat	(or) There want.	5 No 50		
	Ma (1) 19-11	Signature: DODE DA	IONG CUPED INTENDENT	
Date:	May 4, 1987	Position: FIELD OPERAT	IONS SOPERINTENDENT	·
form mu	s form in reporting the <u>daily</u> operations at the we st also be completed and <u>submitted</u> .) Please submi sizes, mud weights, casing sizes and depths set, a ting, and plugging procedures, and anything else p	t a complete history of the mount of cement used. drill	ing depths, fishing, logging,	
Date				
1	DRILLING 17 1/2'' HOLE TO 503'. WIPE			
12/22/86	CIRCULATE, RUN 505.26' OF 13 3/8'', ECLASS 'G' CEMENT MIXED WITH 2% CACL.			(S
12/23/86	WELD ON WELLHEAD. TESTED TO 950 PSI WITNESSING, SUSPEND OPERATIONS FOR HO		D TEST WITH STATE REPRESENTA	XT I V
12/27/86	CIRCULATE AND CONDITION MUD. DRILL F TO 737. POOH FOR MUDMOTOR.	FLOAT, CEMENT AND SH	DE. DRILLING 12 1/4" HOLE	
12/28/86	RIH. DIRECTIONAL DRILLING AND SURVEY DIRECTIONAL DRILLING TO 927. SURVEY N67W.	ING TO 922'. POOH F S: 803' 1°45' N6 OW,	OR BALLED BIT. REDRESS BIT. 833'-2°15' N61W, 864' 3°15'	!
12/29/86	DRILLING TO 884. SURVEY 3°45' N70W. I 12 1/4'' HOLE TO 1210. SURVEYS: 946'	POOH AND CHANGE BHA. -5°00' N69W, 1008' - 5	REAM THROUGH KOP. DRILLING °15' N69W, 1102'-5°15' N70W.	
12/30/86	UNPLUG FLOWLINE, CIRCULATE AND RUN NESURVEYS: 1321'-7°30' N62W, 1445'-7°4	UT PLUG SWEEP. POOH 5' N59W, 1538'—7°45'	FOR NEW BHA. DRILLING TO 16 N60W, 1632'-7°45' N59W.	388
12/31/86	POOH TO CHANGE BHA. RIH WITH NEW BIT 2002'. WIPER TRIP. SURVEYS: 1726'-7			
1/1/87	DRILLING TO 2188. 10 STAND WIPER TRI TO 2238. WIPER TRIP TO SHOE. SURVEY			LIN
1/2/87	CIRCULATE AND CONDITION MUD. POOH FO DRILLING TO 2368'. POOH AND PICK UP 30' TO BOTTOM. CORING 2368'—2378'.			
1/3/87	CORING 2378-2398. POOH AND LAY DOWN CORE 2398-2428'. POOH AND LAY DOWN		RE BARREL. REAM 30° TO BOTTO	. МС
1/4/87	RIH WITH CORING ASSEMBLY. WASH 30' TO LAY DOWN CORE #3. ORIENT TOOL. RIH	O BOTTOM. CORING 242 WITH CORE BARRELL. D	8—2458°. CHAIN OUT OF HOLE. ROP MULTISHOT. CORING 2458—2	2464
1/5/87	CORING 2464—2490. CHAIN OUT OF HOLE. CORING ASSEMBLY. WASH 30' TO BOTTOM.		ORIENT MULTISHOT. RIH WITH	
Form 6 (9/84)				

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                                 HISTORY OF OIL OR GAS HELL
        CORING 2515-2520'. POOH AND LAY DOWN CORE #5. RIH WITH CORING SET UP. WASH 30' TO
         BOTTOM. CORING 2520-2535. CHAIN AND STRAP OUT OF HOLE. LAY DOWN CORE #6. RIH WITH
1/6/87
         12 1/4" BIT. REAMING 2368-2469.
         REAM 2469-2535', CIRCULATE AND SURVEY. 7°00' NS 6W. 10 STAND WIPER TRIP. PBOH FOR
         LOGS AND RUN WIRELINE LOGS. RIH AND CIRCULATE FOR CASING. POOH.
1/7/87
         RUN 63 UDINTS OR 2522' 3 5/8'', K-55, MODIFIED 8 ROUND CASING TO 2519. HYDROTEST EACH
         UDINT TO 2000 PSI. NO FAILURES. CEMENT CASING AS FOLLOWS:
1/3/87
              LEAD SLURRY-452 SACKS 1:1 PERLITE, MIXED WITH 2% CACL, 3% KCL, 1% CFR-3. .25%
              HALAD 4.
              TAIL SLURRY-396 SACKS CLASS 'G' MIXED WITH 1% CACL, 3% KCL, 1% CFR-3, .25%
         BUMP PLUG. HOLD 450 PSI ON CASING. NO CEMENT TO SURFACE.
         CUT OFF 8 5/8 CASING. NIPPLE UP AND TEST TUBING HEAD. TEST BOPE WITH STATE
         REPRESENTATIVE WITNESSING. DRILL PLUG FLOAT, CEMENT TO 2515. WOC.
1/9/87
          WOC. DRILLING CEMENT TO 2536. PODM FOR CEMENT BOND LOG. RUN CEMENT BOND LOG. DUMP
          MUD FITS AND BUILD VOLUME WITH HEC-10 POLYMER. RIH WITH CORE BARRELL. DISPLACE MUD
1/10/87
          IN HOLE WITH HEC-10. CORING 2536-2569. POOH.
          LAYDOWN CORE #7. RIH WITH CORE BARRELL. CORING 2569-2599. POCH AND LAY DOWN
          CORE #8. CHANGE BHA. ORIENT MULTISHOT AND RIH. CORING 2599-1629. POOH AND LAY DOWN
1/11/87
          CORE #9. RIH WITH CORE BARRELL. CORING 2629-2659. POCH AND LAY DOWN CORE #10.
          RIH. WASH TO BOTTOM. CORING 2659-2689'. POCH.
          LAY DOWN CORE #11. RIH WITH CORE BARRELL. CORE 2689-2719. POOH AND LAY DOWN CORE #12.
          PICK UP 7 5/8" BIT AND STABILIZER. DRILLING 7 5/8" HOLE TO 2772". POOH. RUN WIRE LINE
1/12/87
          LOGS.
          RIH WITH UNDER REAMER. BREAK CIRCULATION AT 2515. UNDERREAM 2528-25411. POOH. RIH
1/13/87
          OPEN ENDED AND SET 15 SACK CEMENT PLUG AT 2650-25961.
          POOH AND PICK UP BIT AND TAG PLUG AT 2585'. WOC. DRILL OUT CEMENT TO 2608'. POOH.
 1/14/87
          RIH WITH UNDER REAMER. UNDER REAM TO 26081.
          CIRCULATE HOLE CLEAN. POOH FOR CALIPER. RIG UP LOGGERS AND RUN CALIPER. STRAP IN HOLE WITH UNDER REAMER. UNDER REAM 2528-2606. CIRCULATE THROUGH HALLIBURTON FILTER.
 1/15/87
          RIH WITH REAMER, CIRCULATE AND DISPLACE OLD MUD.
  1/16/87 HOOK UP HALLIBURTON FILTER. STRAP LINER. RIH WITH LINER TO 2603'. GRAVEL PACK LINER WITH
           111 SACKS 20-40 SAND, REVERSE 5 SACKS, PRESSURE UP PACK, PODH AND LAY DOWN GRAVEL
           PACK TOOLS. RIG UP DRESSER-ATLAS AND LOG. RIH WITH LEAD SEAL AND SET AT 2441'.
          RIG UP TO RUN TUBING. CHANGE RAMS IN BOP. RUN 76 JOINTS OR 2406', 5 1/2'', K-55, 208
           WITH ATLAS BRADFORD MODIFIED COUPLINGS, TUBING WITH BAKER PACKER SAFETY VALVE. HYDRO-
  1/17/87
           TEST ALL CONNECTIONS TO 2100 PSI. ONE FAILURE. REVERSE CIRCULATE 75 BARRELLS OF
           CORROSION INHIBITOR. LAND TUBING HANGER AND SET PACKER WITH 4900 PSI. BACK OUT OF
           LANDING JOINT. TUBING LANDED AT 2436'.
                              NIPPLE UP TREE. RELEASE RIG. WELL WENT ON LINE AS INJECTION/
           NIPPLE DOWN BOPE,
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(9/84)

Form 5a

WITHDRAWAL WELL.